# iMobimac Modem

## User Manual

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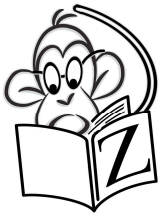
iMobimac Modem is built in part
with code from ZooLib




http://www.zoolib.org

http://www.imobimac.com

# Welcome!

Thanks for using iMobimac Modem. We hope it will be a useful addition to your computing toolkit.

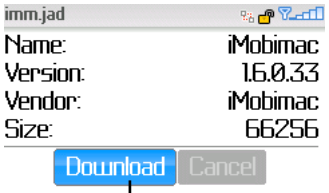
iMobimac Modem is a proxy server which you can run on your Mac all the time. It takes requests from your web browser and other applications and passes them on to real servers using your Mac's regular network connection or your BlackBerry's connection.

There are two parts to iMobimac Modem: an application you install and run on your BlackBerry, and one that you install and run on your Mac.

## Install iMobimac Modem on your BlackBerry

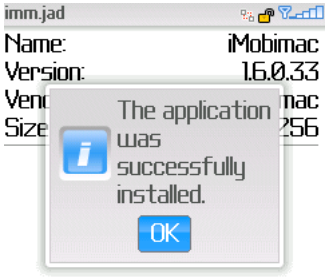
With your BlackBerry 's browser, go to http://www.imobimac.com/ota/imm.jad

*…the application download screen appears.*




**Download** *the application…*

*…which will generally take only a few seconds.*



*iMobimac Modem's icon appears with other third-party applications.*

Your BlackBerry's screens will probably look a little different from the above. Look for iMobimac Modem or its icon in the applications or downloads folders, or at the top level depending on the model you're using.

> Before using iMobimac Modem ensure that your data plan is appropriate for your needs. Standard accounts often charge significant amounts for very small data transfers. $15 per megabyte is not unusual, and a megabyte is only two uncached fetches of news.yahoo.com. In short, get an unlimited data account.

iMobimac Modem on the BlackBerry has one job: to make and handle network connections on behalf of the Mac application. So it needs to have its own net connection, and it needs to be running.

## Configure BlackBerry Net Connection

Your BlackBerry's network connection may support direct TCP via BlackBerry Internet Service. (BIS), or it may be provided by a corporate BlackBerry Enterprise Server (BES/MDS).

If you're using a BIS connection then you may need to configure an APN gateway in **Options/Advanced Options/TCP**. Check your carrier's documentation for details, or google for "blackberry apn". If you're using a BES connection…

*…go to the* **Connect via** *menu…*

*…choose* **BES/MDS**.

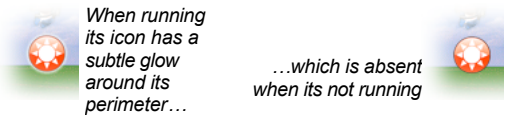
The first time the BlackBerry application attempts to make an HTTP or socket connection a security dialog appears:

**The application iMobimac Modem has requested an HTTP connection to some.domain.name.**

It is *essential* that you click the **all connections** radio button, and the **Allow this connection** button.

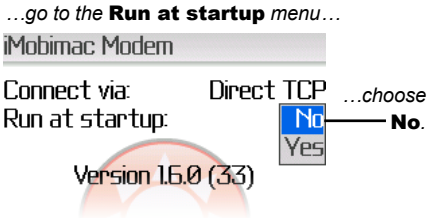
> If you click **Deny this connection** you can fix things by going to **Options/Security Options/Application Permissions/iMobimac Modem/Edit Permissions/Connections** and setting **Carrier Internet** to **Allow**.

# Running iMobimac Modem

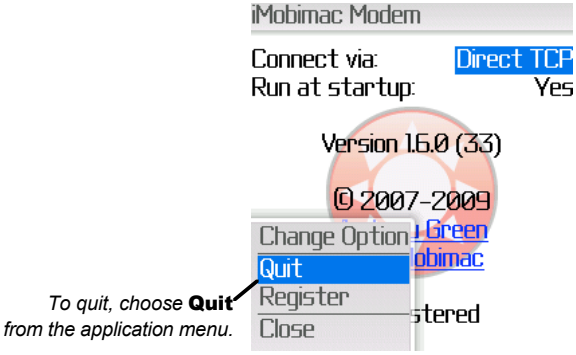



When first installed, iMobimac Modem starts running automatically, and will start whenever the BlackBerry restarts.

To prevent this…




When you exit iMobimac Modem's main screen, it keeps running.



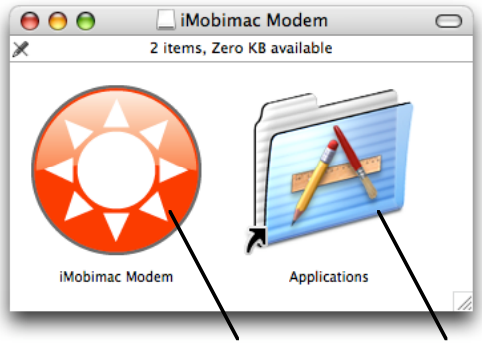

# Purchasing and Registration

iMobimac Modem can be used to fetch up to 10MB of data before it requires that you enter a registration code, which you can purchase by visiting http://www.imobimac.com.

# Install iMobimac Modem on your Mac

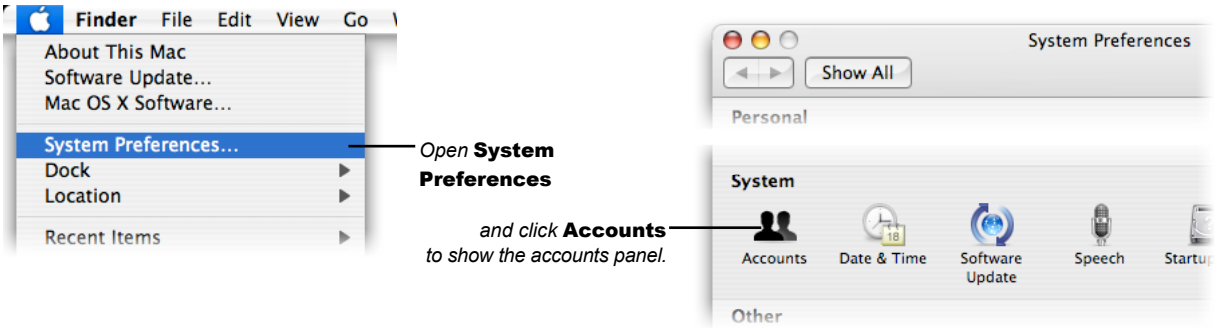
The Mac application can be placed anywhere, although most commonly you'll put it in the Applications folder.

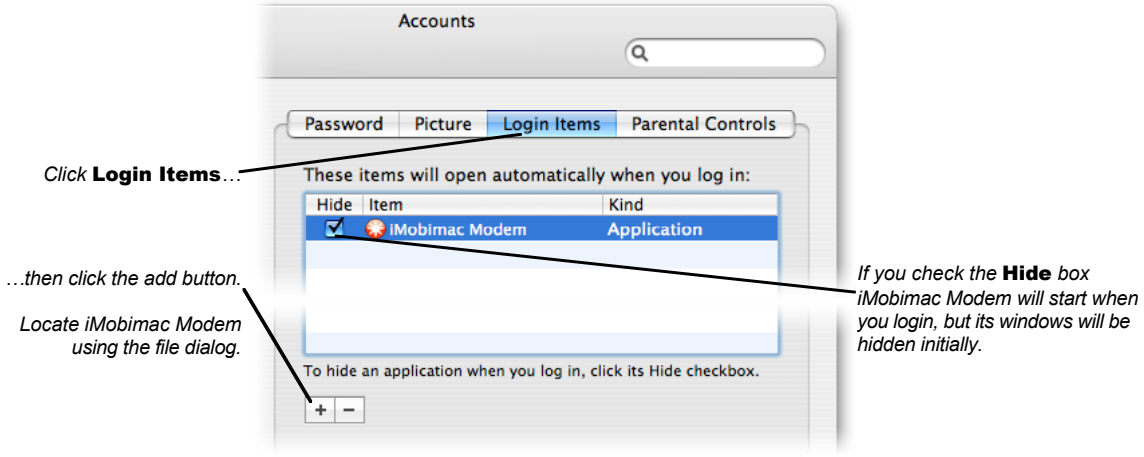
*Mount the disk image…*




*…and drag the iMobimac Modem icon over the Applications folder alias.*

If you use iMobimac Modem regularly then you may want to have it run automatically when you login…



Research in Motion does not provide a means for Mac applications to share access to USB-connected BlackBerrys. If you have installed PocketMac for BlackBerry or BlackBerry Media Sync you will need to uninstall them and restart your Mac before iMobimac Modem will be able to communicate with your BlackBerry.

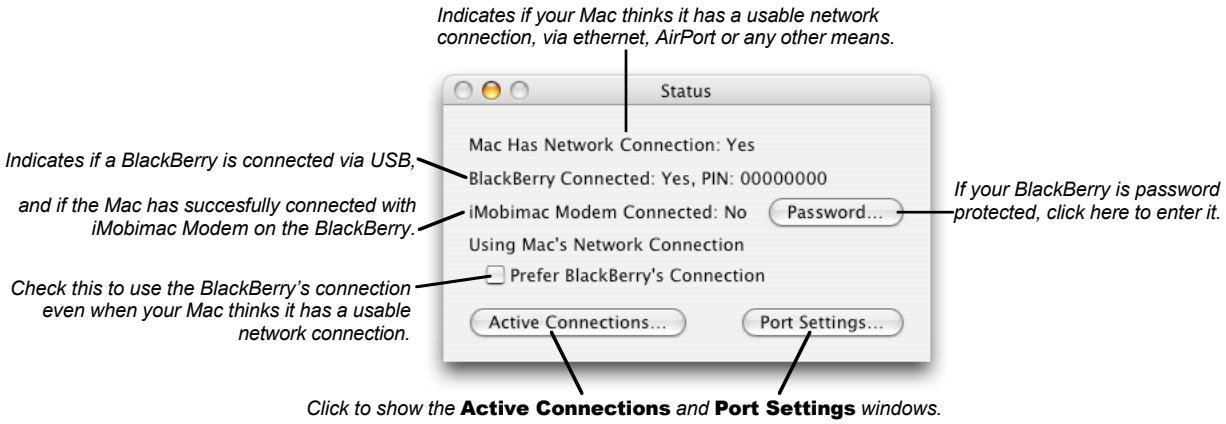
Mark/Space's Missing Sync For BlackBerry 2.0.1 and iMobimac Modem are compatible with each other when you install the ZooLib BBDaemon, which can be downloaded from http://www.em.net/bbdaemon.

# Configure iMobimac Modem on your Mac

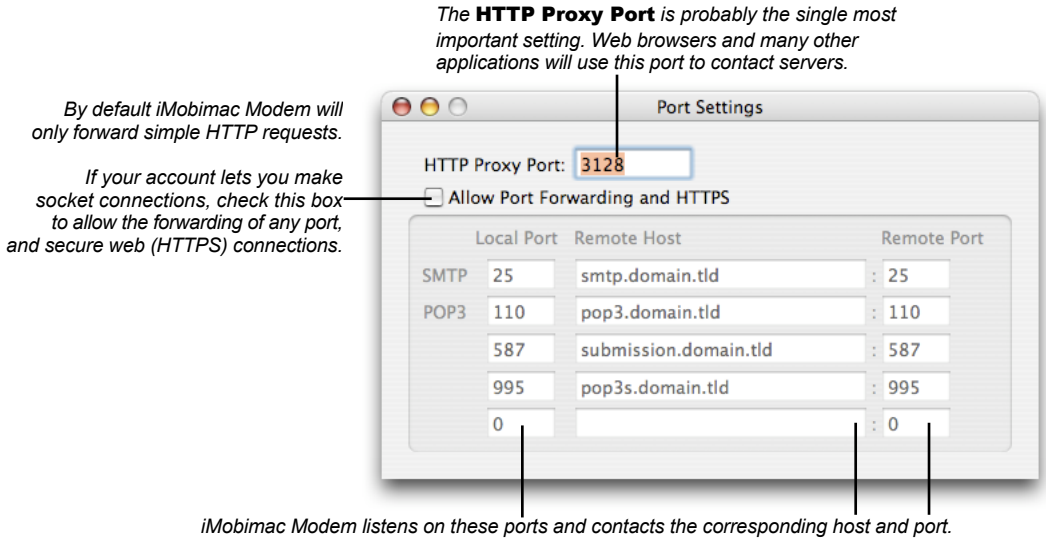
iMobimac Modem is pre-configured to listen on several standard ports. Ports less than 1024 are considered privileged, so any application which wishes to open them must be authorized to do so by an administrator.

The authority is cached for a time, so you may not be asked if you have logged in recently.

When iMobimac Modem is running it shows its **Status** window.

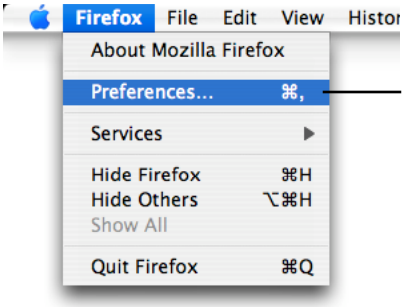



The **Port Settings** window lets you modify the ports on which iMobimac Modem listens, and the host/port to which it should forward any connection.

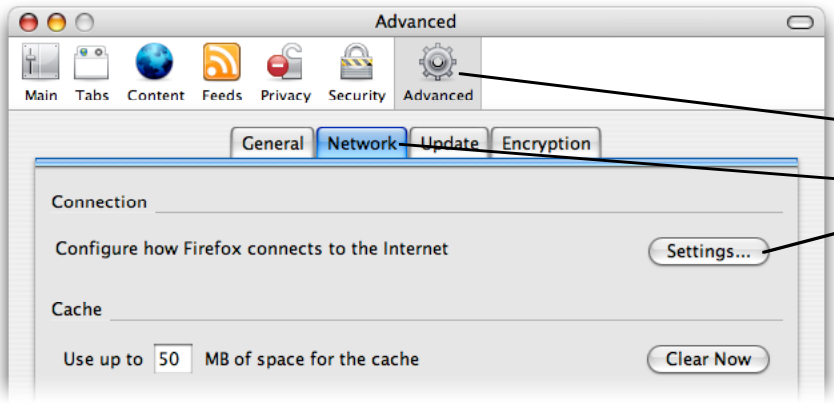



Your other applications need to know that they should contact iMobimac Modem rather than trying to reach their real server directly. Most of the work is thus in configuring those applications. Ironically, Apple's own web browser Safari is the trickiest to configure. So we'll start with Firefox, move on to Mail and by then you'll be better prepared to tackle the several steps required by applications that use the system proxies settings.

# Configure Firefox




*Select* **Preferences...** *from the Firefox application menu.*




*Click* **Advanced**,

*then* **Network**,

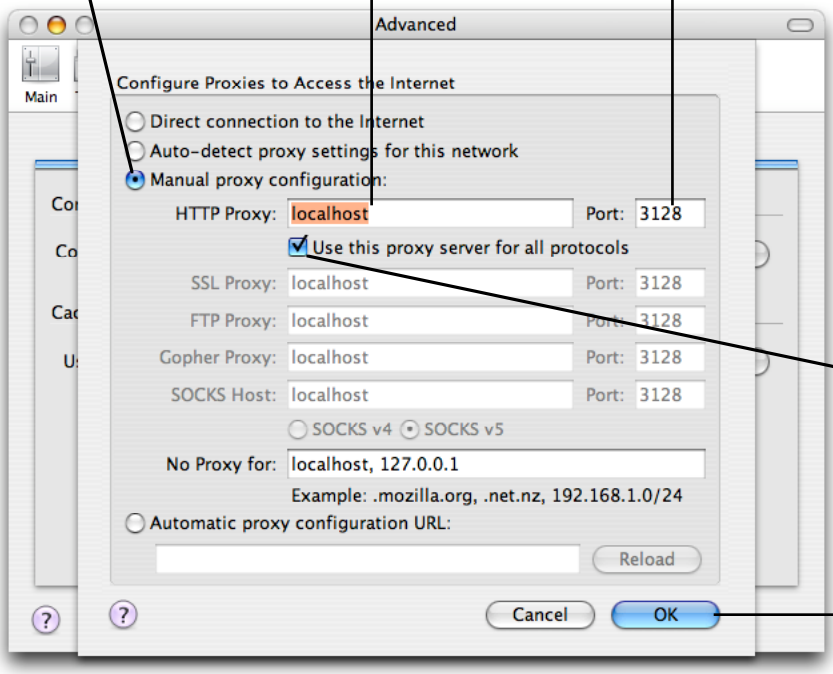
*and* **Settings...** *to show…*

*…the proxy settings sheet.*

*Select* **Manual proxy configuration**

*In* **HTTP Proxy** *type* **localhost**

*and in* **Port** *type* **3128**.



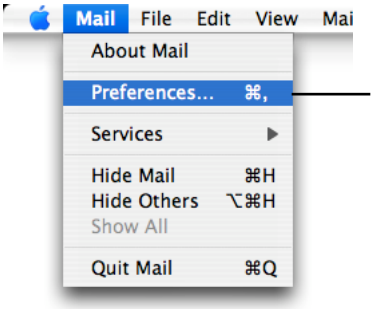

*Check* **Use this proxy server for all protocols**…

*…click* **OK** *and you're done.*

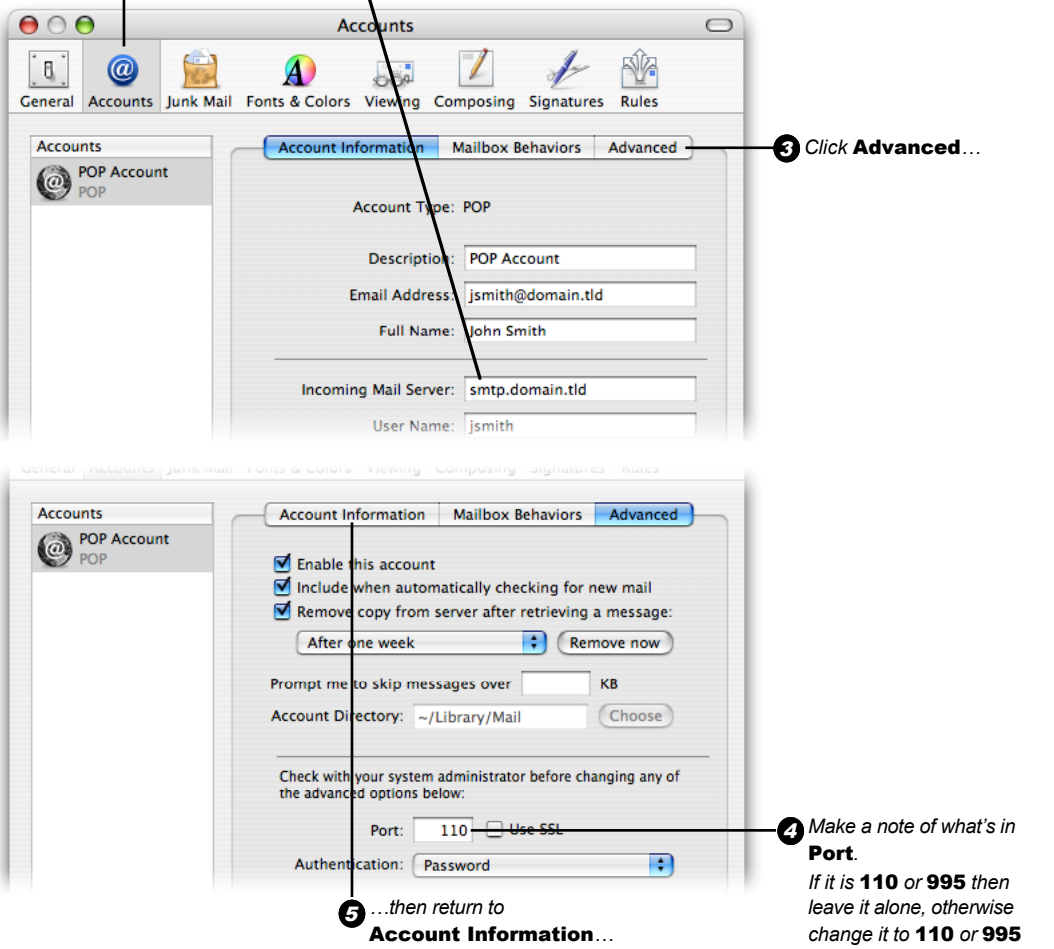
# Configure Mail

Mail uses one connection for sending messages and another for receiving. Outgoing mail will generally contact a server on port 25 (*smtp*) or port 587 (*submission*). Incoming mail using the POP protocol will use port 110 (*pop3*) or port 995 (*pop3s*). Incoming mail using IMAP will generally use port 143 (*imap*), port 220 (*imap3*), port 993 (*imaps*) or occasionally port 585 (*imap4-ssl*).

For simplicity we'll assume you have just one account, but if you have more the steps are the same – you'll be setting a pair of local ports that will forward to a pair of ports on the real server.

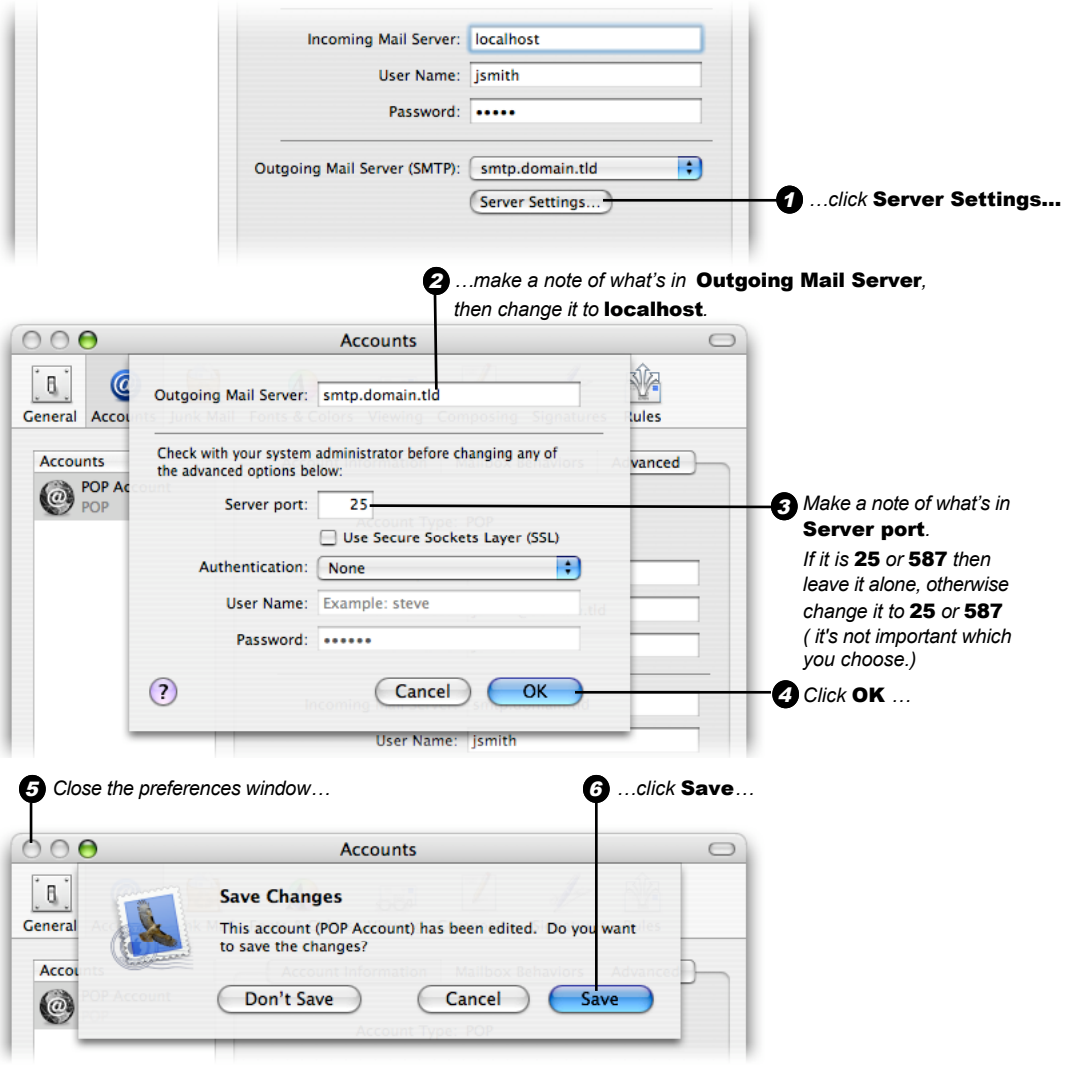



*Bring up Mail's preferences window.*



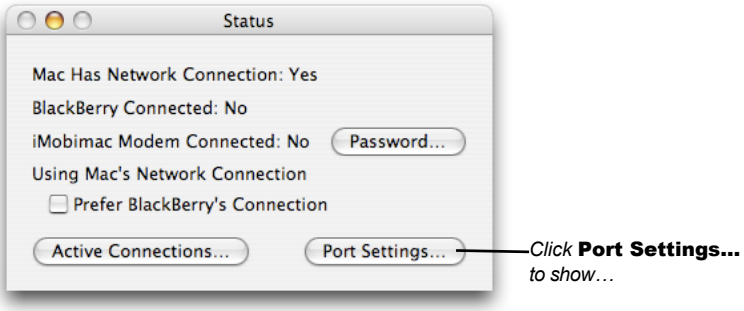

…and you're done configuring Mail's incoming server settings.

Now we'll tackle Mail's outgoing server settings.



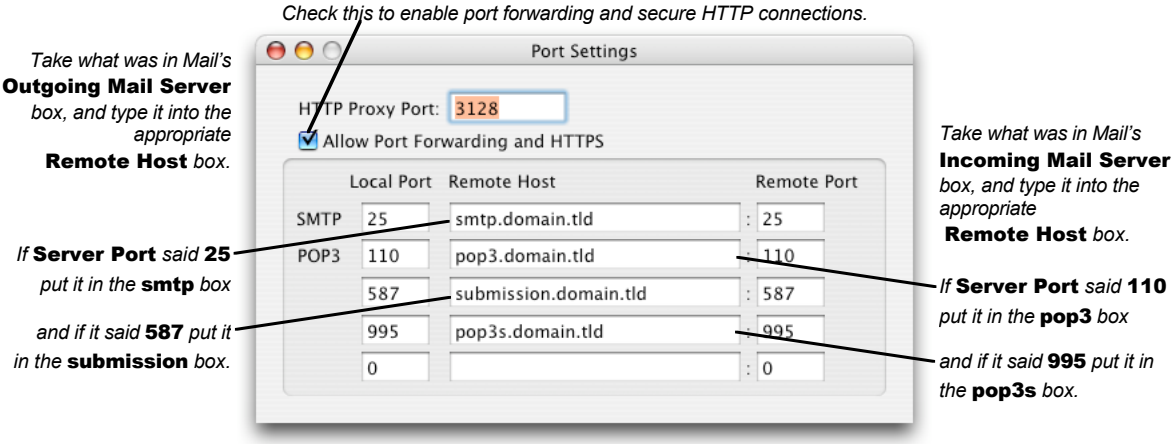

…and you're done configuring Mail's outgoing server settings.

Now we'll configure iMobimac Modem with the ports and server names you noted earlier.



… the **Port Settings** window.

By default, iMobimac Modem listens on ports 25, 110, 587 and 995 and forwards connections to the same ports on servers named *smtp.domain.tld*, *pop3.domain.tld*, *submission.domain.tld* and *pop3s.domain.tld* respectively.




Changes in **Port Settings** take effect as you finish editing each one by hitting the return or tab keys, or clicking in another text box.

> If you enter a local port which cannot be opened because it is already in use or because you did not authenticate as an administrator, then the value will revert to zero.

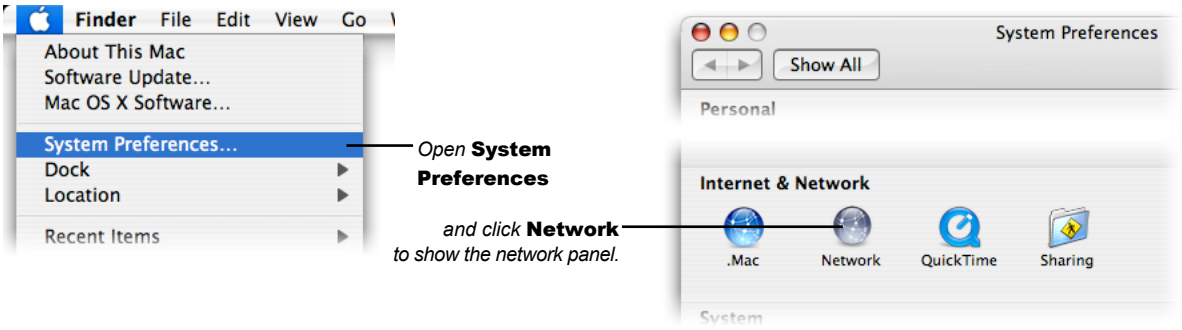
You've now configured Mail so that it will contact iMobimac Modem on your Mac, and you've configured iMobimac Modem so that it will contact the real mail server(s).

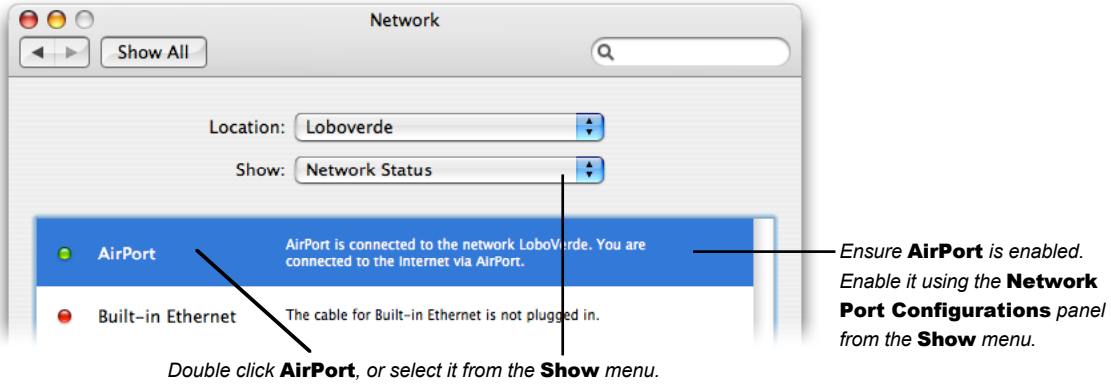
# Configure system proxy settings

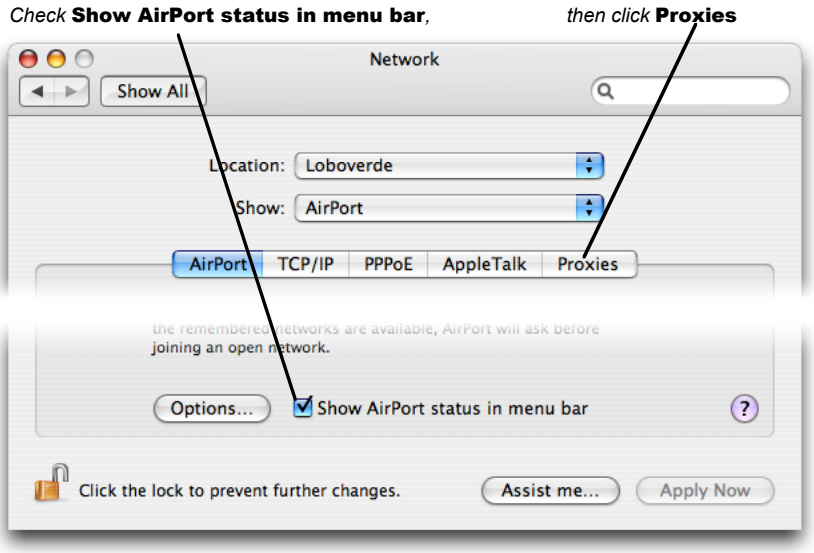
Mac OS X has a powerful mechanism for specifying the proxies to be used by applications when a particular location and connection is active. Safari and many other applications use information in the **Network System Preferences** panel to determine which proxy to use when a particular connection is active. Theoretically this is a good thing, because many settings can be changed automatically as you move your machine from home, to coffee shop, to work and as your connection switches between AirPort and ethernet.

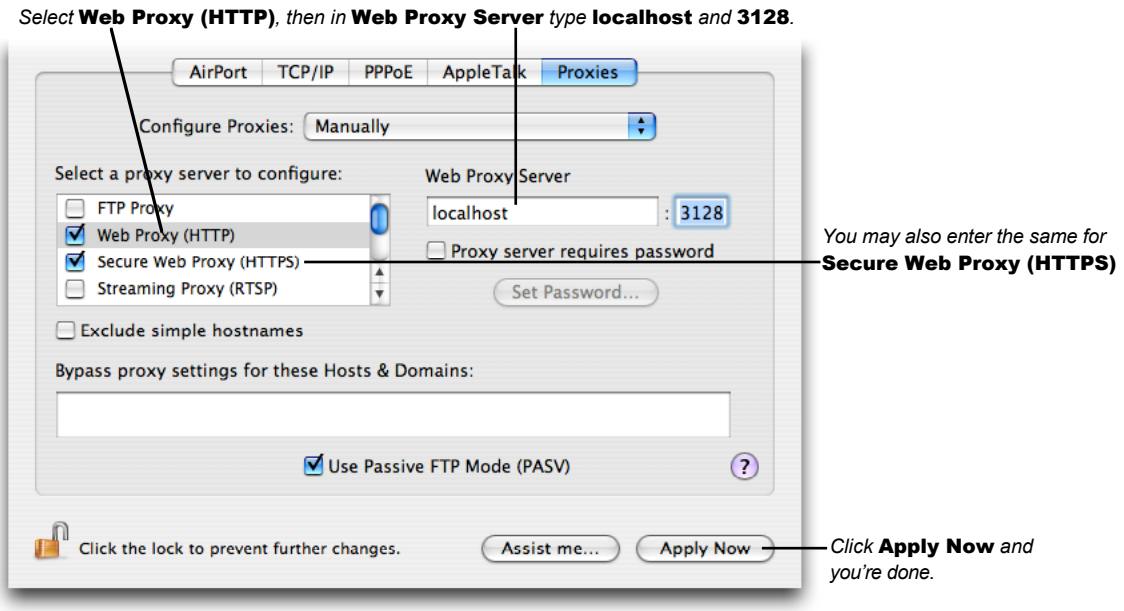
This works very well, until your Mac has no connection at all. So the situation where you most need to use iMobimac Modem is also the situation in which some applications have nowhere from which to fetch their proxy information.

There is a workaround which we'll get to shortly, but first we'll configure your AirPort proxies settings.



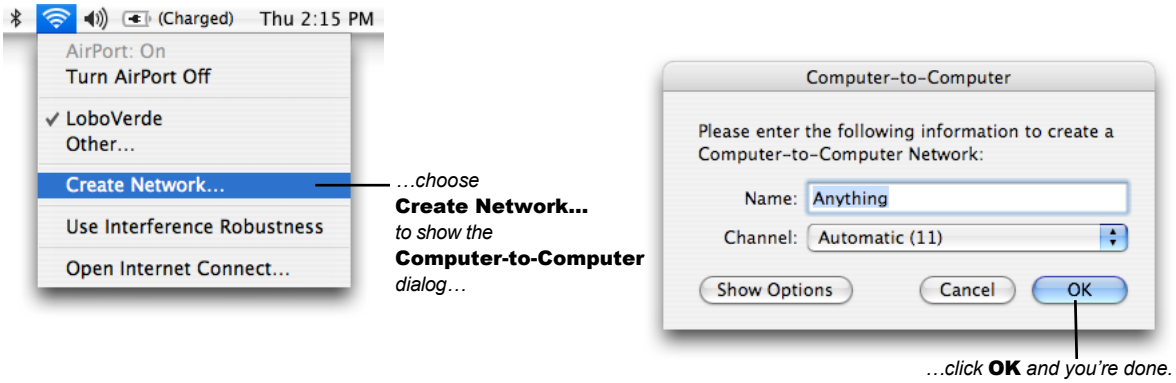






Your Mac now knows that when your connection is provided by the AirPort, web and secure web connections should be proxied by contacting localhost on port 3128.

Here's the workaround for when you're in an environment with no connectivity. Go to the AirPort menu…




This causes your Mac to behave as if the AirPort connection is active, so Safari and other applications will get their web proxy information from the AirPort proxies settings. They will now contact localhost on port 3128 and iMobimac Modem will forward their requests over your BlackBerry 's connection.

As your Mac gains and loses a functioning connection applications like iChat and iMobimac Modem are informed. This notification is what drives iMobimac Modem's **Mac Has Network Connection** line. Surprisingly, switching from a functioning (or non-functioning) AirPort connection to a Computer-to-Computer connection does *not* change the Mac's notion of whether it has a functioning connection. So, you may need to check iMobimac Modem's **Prefer BlackBerry's Connection** box to force it to use the BlackBerry 's connection.